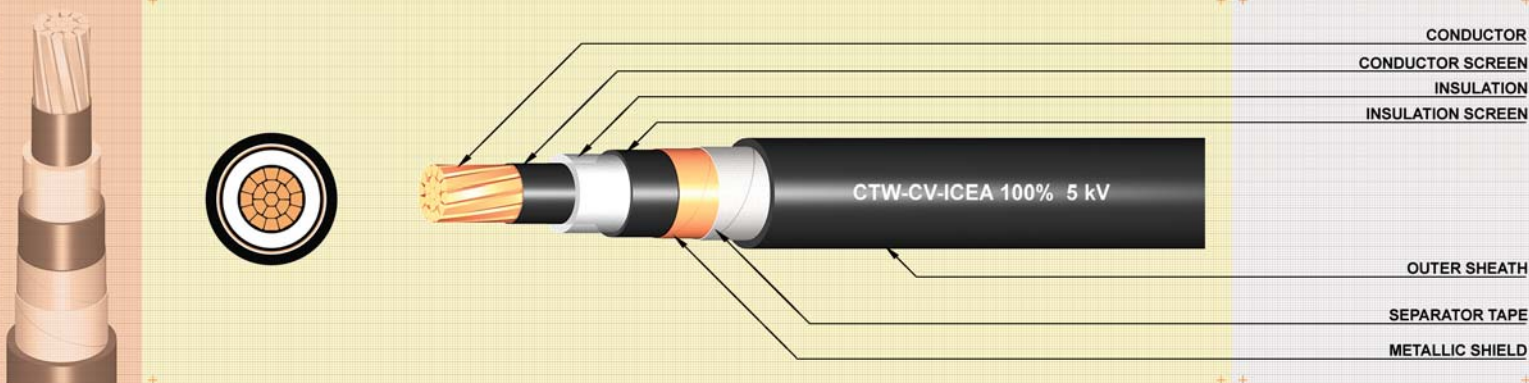




CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW - CV - ICEA 100% SINGLE CORE CU/XLPE/PVC 5 kV

100% INSULATION LEVELS, MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH TAPE SHIELD



CONSTRUCTION		APPLICATION	CLASSIFICATION
Conductor	Compact round stranded annealed copper.	Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.	Maximum Conductor Temperature 90 °C (Normal Operation)
Conductor Screen	Semi-conducting cross-linked polyethylene.		Maximum Conductor Temperature 250 °C (Short-circuit Conditions)
Insulation	Cross-linked polyethylene. (XLPE)	REFERENCE ICEA S-66-524 (100% Insulation Levels) ** AC Test Voltage : 13 kV	NOTE A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.		
Separator Tape	Polyester and/or Spunbond tape.		
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		

Product code	Conductor			Thickness of insulation mm	Diameter over insulation (Approx.) mm	Thickness of outer sheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Maximum conductor resistance at 20°C Ω/km	Minimum insulation resistance at 15.6°C MΩ-km	Ampacities direct burial in ground at 30°C A	Allowable ampacities in free air at 40°C (ambient) A	Standard length m/R
	Nominal cross-sectional area core x mm²	Minimum number of wire No./mm	Diameter (Approx.) mm										
K3J121010	1 x 10	6	3.72	2.29	9.5	1.52	16	310	1.83	1,800	90	100	1,000
K3J121016	1 x 16	6	4.69	2.29	10.5	1.52	17	380	1.15	1,600	115	125	1,000
K3J121025	1 x 25	6	5.90	2.29	12.0	1.52	18	490	0.727	1,400	150	165	1,000
K3J121035	1 x 35	6	6.95	2.29	13.0	1.52	19	610	0.524	1,300	180	200	1,000
K3J121050	1 x 50	6	8.33	2.29	14.0	1.52	20	770	0.387	1,100	210	240	1,000
K3J121070	1 x 70	12	9.73	2.29	16.0	2.03	23	1,030	0.268	1,000	260	295	1,000
K3J121095	1 x 95	15	11.45	2.29	17.5	2.03	25	1,300	0.193	850	310	365	1,000
K3J121120	1 x 120	18	12.95	2.29	19.5	2.03	26	1,570	0.153	800	350	420	1,000
K3J121150	1 x 150	18	14.27	2.29	20.5	2.03	28	1,870	0.124	700	395	475	1,000
K3J121185	1 x 185	30	15.98	2.29	22.0	2.03	29	2,230	0.0991	650	450	545	1,000
K3J121240	1 x 240	34	18.47	2.29	25.0	2.03	32	2,790	0.0754	600	520	640	500
K3J121300	1 x 300	34	20.68	2.29	27.0	2.03	35	3,390	0.0601	550	585	740	500
K3J121400	1 x 400	53	23.39	2.29	30.0	2.03	38	4,390	0.0470	450	670	850	500
K3J121500	1 x 500	53	26.67	2.29	33.5	2.03	42	5,380	0.0366	400	760	975	250
K3J121630	1 x 630	53	30.20	2.29	37.0	2.79	47	6,860	0.0283	370	860	1,130	250
K3J121800	1 x 800	53	34.00	2.29	41.0	2.79	51	8,530	0.0221	350	1,025	1,330	250
K3J1211000	1 x 1,000	53	40.00	2.29	46.5	2.79	57	10,530	0.0176	300	1,215	1,520	250

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter

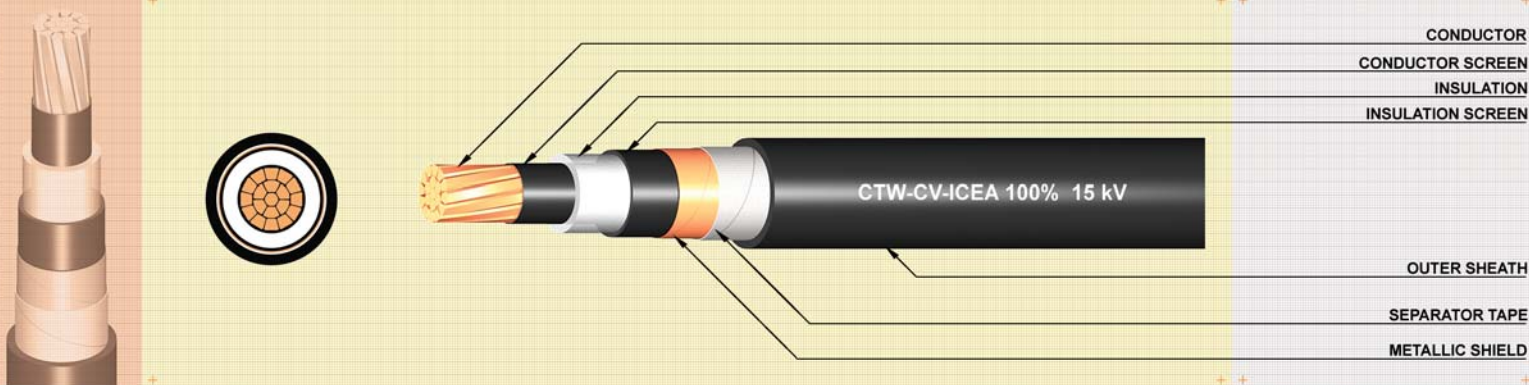
R = Packing in reel



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CV-ICEA 100% SINGLE CORE CU/XLPE/PVC 15 kV

100% INSULATION LEVELS, MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH TAPE SHIELD



C O N S T R U C T I O N		A P P L I C A T I O N	C L A S S I F I C A T I O N
Conductor	Compact round stranded annealed copper.	Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.	Maximum Conductor Temperature 90 °C (Normal Operation)
Conductor Screen	Semi-conducting cross-linked polyethylene.		Maximum Conductor Temperature 250 °C (Short-circuit Conditions)
Insulation	Cross-linked polyethylene. (XLPE)	R E F E R E N C E ICEA S-66-524 (100% Insulation Levels) ** AC Test Voltage : 27 kV	N O T E A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.		
Separator Tape	Polyester and/or Spunbond tape.		
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)		

Product code	Conductor			Thickness of insulation mm	Diameter over insulation (Approx.) mm	Thickness of outer sheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Maximum conductor resistance at 20°C Ω/km	Minimum insulation resistance at 15.6°C MΩ-km	Ampacities direct burial in ground at 30°C A	Allowable ampacities in free air at 40°C (ambient) A	Standard length m/R
	Nominal cross-sectional area core x mm²	Minimum number of wire No./mm	Diameter (Approx.) mm										
K3K121025	1 x 25	6	5.90	4.45	16.5	2.03	23	690	0.727	2,200	140	155	1,000
K3K121035	1 x 35	6	6.95	4.45	17.0	2.03	24	810	0.524	2,000	170	190	1,000
K3K121050	1 x 50	6	8.33	4.45	18.5	2.03	26	990	0.387	1,800	200	230	1,000
K3K121070	1 x 70	12	9.73	4.45	20.0	2.03	27	1,210	0.268	1,600	250	285	1,000
K3K121095	1 x 95	15	11.45	4.45	22.0	2.03	29	1,490	0.193	1,500	295	355	1,000
K3K121120	1 x 120	18	12.95	4.45	23.5	2.03	31	1,770	0.153	1,300	335	410	1,000
K3K121150	1 x 150	18	14.27	4.45	25.0	2.03	32	2,080	0.124	1,200	375	455	1,000
K3K121185	1 x 185	30	15.98	4.45	26.5	2.03	34	2,450	0.0991	1,100	430	525	1,000
K3K121240	1 x 240	34	18.47	4.45	29.0	2.03	37	3,030	0.0754	1,000	495	620	500
K3K121300	1 x 300	34	20.68	4.45	31.5	2.03	39	3,640	0.0601	900	560	720	500
K3K121400	1 x 400	53	23.39	4.45	34.5	2.79	43	4,650	0.0470	800	640	825	500
K3K121500	1 x 500	53	26.67	4.45	38.0	2.79	48	5,820	0.0366	750	725	950	250
K3K121630	1 x 630	53	30.20	4.45	41.5	2.79	52	7,180	0.0283	650	820	1,120	250
K3K121800	1 x 800	53	34.00	4.45	45.0	2.79	56	8,870	0.0221	600	985	1,305	250
K3K1211000	1 x 1,000	53	40.00	4.45	51.5	2.79	62	10,920	0.0176	550	1,185	1,495	250

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter

08 Medium & High Voltage Power Cable

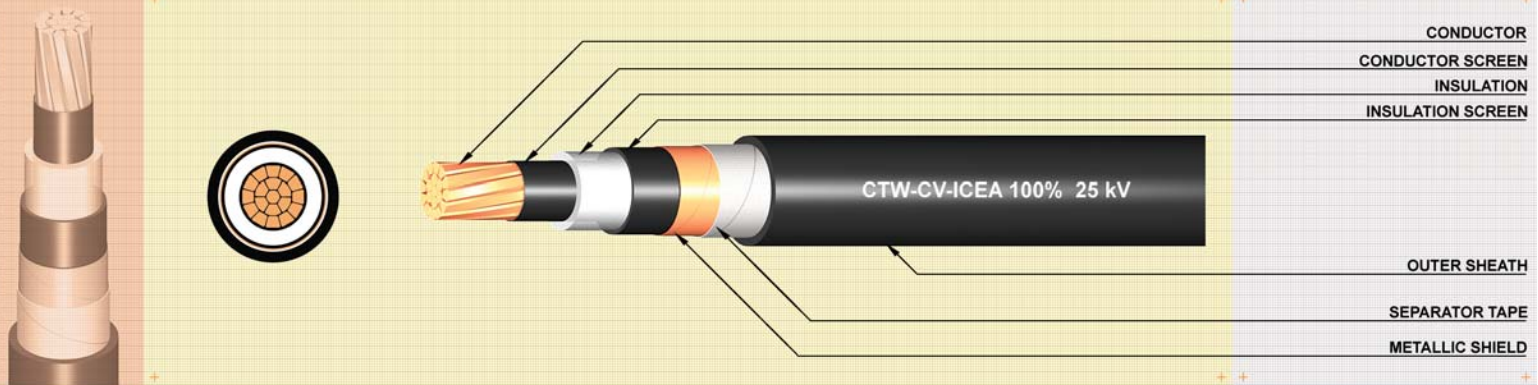
R = Packing in reel



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CV-ICEA 100% SINGLE CORE CU/XLPE/PVC 25 kV

100% INSULATION LEVELS, MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH TAPE SHIELD



C O N S T R U C T I O N		A P P L I C A T I O N	C L A S S I F I C A T I O N
Conductor	Compact round stranded annealed copper.	Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.	Maximum Conductor Temperature 90 °C (Normal Operation)
Conductor Screen	Semi-conducting cross-linked polyethylene.		Maximum Conductor Temperature 250 °C (Short-circuit Conditions)
Insulation	Cross-linked polyethylene. (XLPE)		
Insulation Screen	Semi-conducting cross-linked polyethylene.		
Metallic Shield	Annealed copper tape.	R E F E R E N C E	
Separator Tape	Polyester and/or Spunbond tape.	ICEA S-66-524 (100% Insulation Levels)	A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)	** AC Test Voltage : 38 kV	

Product code	Conductor			Thickness of insulation mm	Diameter over insulation (Approx.) mm	Thickness of outer sheath mm	Overall diameter (Approx.) mm	Cable weight (Approx.) kg/km	Maximum conductor resistance at 20°C Ω/km	Minimum insulation resistance at 15.6°C MΩ·km	Ampacities direct burial in ground at 30°C A	Allowable ampacities in free air at 40°C (ambient) A	Standard length m/R
	Nominal cross-sectional area core x mm²	Minimum number of wire No./mm	Diameter (Approx.) mm										
K3M121035	1 x 35	6	6.95	6.60	21.5	2.03	29	1,000	0.524	2,600	170	200	1,000
K3M121050	1 x 50	6	8.33	6.60	23.0	2.03	30	1,180	0.387	2,400	200	240	1,000
K3M121070	1 x 70	12	9.73	6.60	24.5	2.03	31	1,423	0.268	2,200	250	295	1,000
K3M121095	1 x 95	15	11.45	6.60	26.0	2.03	34	1,710	0.193	2,000	295	365	1,000
K3M121120	1 x 120	18	12.95	6.60	28.0	2.03	35	1,990	0.153	1,800	335	420	1,000
K3M121150	1 x 150	18	14.27	6.60	29.5	2.03	37	2,310	0.124	1,700	375	475	1,000
K3M121185	1 x 185	30	15.98	6.60	31.0	2.03	38	2,700	0.0991	1,600	430	545	1,000
K3M121240	1 x 240	34	18.47	6.60	33.5	2.03	41	3,290	0.0754	1,400	495	640	500
K3M121300	1 x 300	34	20.68	6.60	36.0	2.79	44	3,910	0.0601	1,300	560	740	500
K3M121400	1 x 400	53	23.39	6.60	39.0	2.79	49	5,110	0.0470	1,200	640	850	500
K3M121500	1 x 500	53	26.67	6.60	42.5	2.79	52	6,150	0.0366	1,000	725	975	250
K3M121630	1 x 630	53	30.20	6.60	46.0	2.79	56	7,530	0.0283	950	820	1,130	250
K3M121800	1 x 800	53	34.00	6.60	50.0	2.79	60	9,250	0.0221	850	985	1,330	250
K3M1211000	1 x 1,000	53	40.00	6.60	55.5	2.79	66	11,330	0.0176	750	1,185	1,520	250

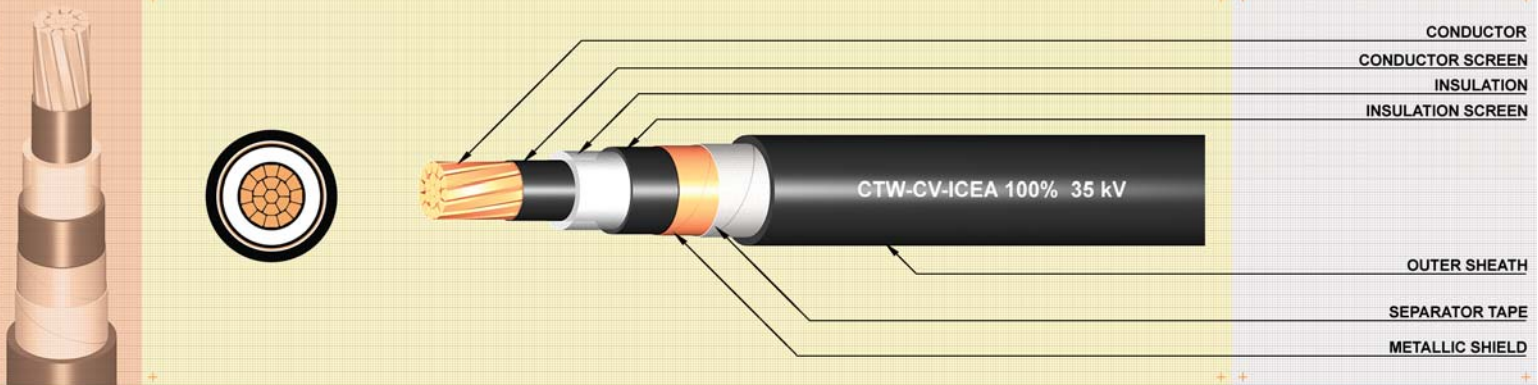
** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter
R = Packing in reel



CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW-CV-ICEA 100% SINGLE CORE CU/XLPE/PVC 35 kV

100% INSULATION LEVELS, MEDIUM VOLTAGE CROSS-LINKED POLYETHYLENE CABLE, COPPER CONDUCTOR WITH TAPE SHIELD



CONSTRUCTION

Conductor	Compact round stranded annealed copper.
Conductor Screen	Semi-conducting cross-linked polyethylene.
Insulation	Cross-linked polyethylene. (XLPE)
Insulation Screen	Semi-conducting cross-linked polyethylene.
Metallic Shield	Annealed copper tape.
Separator Tape	Polyester and/or Spunbond tape.
Outer Sheath	Black Polyvinyl chloride (ST2) ; Optional : Polyethylene (ST7)

APPLICATION

Preferably used for urban networks. Exposed in aerial, direct burial, conduit, open tray and underground duct installation.

CLASSIFICATION

Maximum Conductor Temperature 90 °C (Normal Operation)
Maximum Conductor Temperature 250 °C (Short-circuit Conditions)

REFERENCE

ICEA S-66-524
(100% Insulation Levels)
** AC Test Voltage : 49 kV

NOTE

A special FR-PVC or Low Smoke Halogen Free (LSHF) Flame retardant sheath can be supplied in accordance with IEC 60332-3.

Product code	Conductor			Thickness of insulation	Diameter over insulation (Approx.)	Thickness of outer sheath	Overall diameter (Approx.)	Cable weight (Approx.)	Maximum conductor resistance at 20°C	Minimum insulation resistance at 15.6°C	Ampacities direct burial in ground at 30°C	Allowable ampacities in free air at 40°C (ambient)	Standard length
	Nominal cross-sectional area core x mm ²	Minimum number of wire No./mm	Diameter (Approx.) mm										
K3O121050	1 x 50	6	8.33	8.76	27.0	2.03	35	1,410	0.387	2,900	200	235	1,000
K3O121070	1 x 70	12	9.73	8.76	28.5	2.03	37	1,650	0.268	2,600	250	290	1,000
K3O121095	1 x 95	15	11.45	8.76	30.5	2.03	39	1,950	0.193	2,400	295	360	1,000
K3O121120	1 x 120	18	12.95	8.76	32.0	2.03	41	2,240	0.153	2,200	335	415	1,000
K3O121150	1 x 150	18	14.27	8.76	33.5	2.03	42	2,570	0.124	2,100	375	470	1,000
K3O121185	1 x 185	30	15.98	8.76	35.0	2.03	43	2,970	0.0991	1,900	430	540	1,000
K3O121240	1 x 240	34	18.47	8.76	37.5	2.79	48	3,730	0.0754	1,700	495	635	500
K3O121300	1 x 300	34	20.68	8.76	40.0	2.79	50	4,380	0.0601	1,600	560	735	500
K3O121400	1 x 400	53	23.39	8.76	43.5	2.79	54	5,440	0.0470	1,400	640	845	500
K3O121500	1 x 500	53	26.67	8.76	46.5	2.79	57	6,510	0.0366	1,300	725	970	250
K3O121630	1 x 630	53	30.20	8.76	50.0	2.79	61	7,910	0.0283	1,200	820	1,125	250
K3O121800	1 x 800	53	34.00	8.76	54.0	2.79	65	9,650	0.0221	1,100	985	1,325	250
K3O1211000	1 x 1,000	53	40.00	8.76	60.0	2.79	71	11,770	0.0176	1,000	1,185	1,515	250

** Depth of laying in ground = 1 m, Rho = 1.2 °C m/watt, Spacing of cable = 2 x cable overall diameter

10 Medium & High Voltage Power Cable

R = Packing in reel